



GRADE 11 PHYSICAL SCIENCE 5 MARK TEST

QUESTION 1

Various options are provided for possible answers to the following questions. Choose the correct answer and enter (A), (B), (C) or (D) next to the QUESTION NUMBER (1-10) on your final paper. Example: 1. D

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Select one of the following statements is true?

- A. $\frac{1}{m_X} < \frac{1}{m_Y}$ and $\frac{1}{m_X} < \frac{1}{m_Y}$
 - B. $\frac{1}{m_X} > \frac{1}{m_Y}$ and $\frac{1}{m_X} > \frac{1}{m_Y}$
 - C. $\frac{1}{m_X} < \frac{1}{m_Y}$ and $\frac{1}{m_X} > \frac{1}{m_Y}$
 - D. $\frac{1}{m_X} > \frac{1}{m_Y}$ and $\frac{1}{m_X} < \frac{1}{m_Y}$
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0 N?
- A. A person is pushing a shopping cart.
 - B. A car is moving forward with a constant velocity.
 - C. A ball is falling from a height of 10 m.
 - D. A person is standing on a flat surface.
- 1.3 Select all the statements below that describe the resultant?
- A. An object is moving with a constant velocity.
 - B. An object is moving with a constant acceleration.
 - C. An object is moving with a constant velocity.
 - D. An object is moving with a constant acceleration.
- 1.4 The inertia of an object...
- A. is a measure of its resistance to change in motion.
 - B. is a measure of its resistance to change in motion.
 - C. is a measure of its resistance to change in motion.
 - D. is a measure of its resistance to change in motion.
- 1.5 An object has a weight W on Earth. What is the weight of the object on the Moon?

surface of the Earth?

- A. W
 - B. $\frac{W}{6}$
 - C. $6W$
 - D. $\frac{W}{10}$
- 1.6 A box is pulled forward with a force of 100 N but does not move. A possible reason for this is that:
- A. The box is too heavy.
 - B. The box is too light.
 - C. The box is too heavy.
 - D. The box is too light.

[10]

QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- 2.1 The bucket is stationary.
- 2.2 The tension in rope P is 100 N at an angle of 30° to the vertical and the tension in Q is 100 N at 45° to the vertical.



Calculate the RESULTANT of the:

- 2.2.1 Resultant of the two ropes. [1]
 - 2.2.2 Resultant of the two ropes. [1]
 - 2.2.3 Resultant of the horizontal components. [1]
 - 2.2.4 Resultant of the vertical components. [1]
 - 2.2.5 Resultant of the two ropes. [1]
- 2.3 Calculate the resultant of the two ropes. [1]

[10]

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